

TEGELEKOV, K.

Geochemical characteristics of Pliocene sediments of Kum-Dag
(southwestern Turkmenistan). Dokl. AN Azerb.SSR 16 no.8:763-767
'60. (MIRA 13:9)

1. Institut geologii AN AzerSSR. Predstavлено акад. AN AzerSSR Sh. F.
Mekhtiyevym.
(Kum-Dag region--Geology, Stratigraphic) (Organic matter)

TEGELEKOV, K.

Petrographic correlatives of Pliocene sediments in the Kum-Dag
deposit (southwestern Turkmenistan). Uch.zap. AGU. Geol.-geog.ser.
no.6:61-68 '62. (MIRA 15:9)
(Kum-Daga Region—Petrology)

ESENOV, M. E.; KHANOI, S.; TEGELEKOV, K.; BEKMURADOV, N.

"Geology and oil-and gas deposits of Southwest Turkmenistan."

report submitted for 22nd Sess, Intl Geological Cong, New Delhi, 14-22 Dec
1964.

TEGELEKOV, K.

Geological characteristics of the Middle-Upper Pliocene
sediments of Okarem. Izv. AN Turk.SSR.Ser.fiz.-tekhn.,
khim. i geol.nauk no.5:66-70 '65. (MIRA 18:11)

1. Institut geologii Gosudarstvennogo geologicheskogo
komiteta SSSR. Submitted October 1, 1964.

S/081/62/000/010/052/085
B168/B180

AUTHOR: Teggers, Hans

TITLE: Harteck's experiments on the use of nuclear energy in
chemical processes

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 391,
abstract 10K10 (Kerntechnik, v. 3, no. 7, 1961,
312-316, III)

TEXT: The prospects of using radiation chemistry in chemical technology
are assessed and the principal concepts of radiation chemistry and the
ways in which radiation acts upon chemical processes are examined.
Work is described on the synthesis of nitric oxide under the influence
of ionizing radiation and fission fragments. [Abstracter's note:
Complete translation.]

Card 1/1

DRESCHER, Edward; MARKIEWICZ, Czeslaw; TEGI, Miroslaw

Clinical experience with the treatment of pleural empyema in
children. Roczn. Pom. Akad. med. Swierczewski 10:359-369 '64.

1. Z Kliniki Chirurgii Dziecięcej Pomorskiej Akademii Medycznej
(Kierownik: prof. dr E. Drescher).

TEGI, Stanislaw

A case of tendril-like neurofibroma. Pol. przegl. chir. 37 no.4:
334-336 Ap'65.

1. Z Kliniki Chirurgii Dziecięcej Pomorskiej Akademii Medycznej
w Szczecinie (Kierownik: prof. dr. E. Drescher).

TEGI, Stanislaw

Putty kidney in a child. Pol. przegl. chir. 37 no.4: Suppl. 402-404 Ap'65.

1. Z Kliniki Chirurgii Dziecięcej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. E. Drescher).

TECIELESKI, R.

Testing the state of employment in electric-power plants based on statistical
indexes. p.44.
ENERGETIKA (Ministerstwo Energetyki) Stalinogrod
Vol. 10, no. 1, Jan./Feb. 1956

So. East European Accessions List

Vol. 5, No. 9

September 1956

TECIELSKI, R.

Struggle to lower prime costs of electric power, p. 30. (ENERGETYKA, Stalinogrod, Vol. 9, no. 1, Jan./Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955,
Uncl.

TEGINA, T. A.

16

PHASE I BOOK EXPLOITATION

SOV/6177

Academija nauk SSSR. Institut neftekhimicheskogo sinteza
Radioliz uglevodorodov; nekotoryye fiziko-khimicheskiye problemy
(Radiolysis of Hydrocarbons; Some Physicochemical Problems)
Moscow, Izd-vo AN SSSR, 1962. 207 p. Errata slip inserted.
5000 copies printed.

Resp. Eds.: J. V. Topchiyev, Academician, and L. S. Polak,
Doctor of Physics and Mathematics; Ed.: L. T. Bugayenko;
Tech Ed.: Ch. A. Zentsel'skaya.

PURPOSE: This book is intended for physical and industrial chemists
interested in the properties and behavior of irradiated hydro-
carbons.

COVERAGE: The book gives a systematic presentation of the results
of research on the radiolysis of hydrocarbons carried out from
1957 through 1961 at the Laboratory of Radiation Chemistry,
Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petro-

Card 1/4

16

Radiolysis of Hydrocarbons (Cont.)

SOV/6177

chemical Synthesis, Academy of Sciences USSR). Although the results were obtained for individual compounds, they may be generalized and applied to other members of the same homologous series. The following persons participated in making the experiments and in writing the text: V. G. Beryozkin, V. E. Glushnev, Yu. A. Kolbanovskiy, I. M. Kustanovich, V. D. Popov, A. Ya. Temkin, V. D. Timofeyev, N. Ya. Chernyak, V. A. Shilkhayev, E. B. Shlikhter, A. S. Shcherbakova, B. M. Negodov, A. Z. Peryshkina, N. M. Rytova, T. A. Tegina, Yu. B. Emin, A. M. Brodskiy, V. V. Voyevodskiy, P. Ya. Glazunov, B. A. Smirnova, and Yu. L. Khait. References, mainly Soviet and English, follow individual chapters.

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Ch. I. Physicochemical Characteristics of Hydrocarbon Radiolysis	5

Card 2/4

TEGISBAYEV, Ye.

Work of the control and analytical laboratory of Taldy-Kurgan
Province, Apt. dalo 9 no.6:58-59 N-D '60. (MIRA 13:12)
(TALDY-KURGAN PROVINCE—PHARMACY)

TEGISBAYEV, Ye.T.; CHUMBALOV, T.K.; ABUBAKIROV, N.K.

Triterpene glycoside silenoside from the roots of bladder
campion. Rast. res. 1 no.1:102-106 '65. (MIRA 18:6)

1. Alma-Atinskiy gosudarstvennyy meditsinskiy institut; Alma-
Atinskiy gosudarstvennyy universitet im. S.M. Kirova i Institut
khimii rastitel'nykh veshchestv AN UzSSR, Tashkent.

AKHUNDOV, I.I.; BABICH, S.Kh.; TEGISBAYEV, Ye.T.

Sergosin kidney function test. Report No.1. Zdrav. Kazakh, 21
no.11:27-31 '61. (MIRA 15:7)

1. Iz kafedry urologii (zav. - prof. Z.V. Faynshteyn) i
kafedry farmatsevticheskoy khimii (zav. - dotsent S.Kh. Babich)
Kazakhskogo meditsinskogo instituta.
(KIDNEY - DIAGNOSIS)

TEGISBAYEV, Ye.".

Medicinal plants in the southern Dzhungarian region. Zdrav. Kazakh.
(MIRA 17:5)
22 no.10:58-59 '62.

1. Iz kafedry farmatsevticheskoy khimii Kazakhskogo meditsinskogo
instituta.

TEGKAYEV, KH. N., Engineer

"Investigation of the Thermal Process in Water Heaters of Mixing Types." Sub 26 May 47, Moscow Order of the Labor Red Banner Electro-mechanical Inst of Railroad Engineers imeni F. E. Dzerzhinskiy

(Candidate of Tech Sci)

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

TEGKAYEV, Kh. N.

TEGKAYEV, Kh.N., kandidat tekhnicheskikh nauk

Investigation of heat exchange in the mixing chamber of water
superheaters. Tekh.zhel.dor.7 no.1:6-8 Ja'48. (MLKA 8:11)
(Locomotive boilers)

TEGKAYEV, Kh.N.; AKSYUK, Yu.B., redaktor; GLOTOVA, M.I., tekhnicheskiy
redaktor

[Along Rostov Province tourist trails] Po turistskim marshrutam
Rostovskoi oblasti. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo,
1953. 126 p. [Microfilm] (MLRA 7:10)
(Rostov Province--Tourism)
(Tourism--Rostov Province)

TEGKAYEV, Kh. N., dotsent.

Coal wetting - an efficient method of combating fuel losses
in locomotives. Trudy RIIZHT no.19:27-35 '55. (MLRA 9:7)
(Locomotives--Fuel consumption)

KARMINSKIY, D.E., prof., doktor tekhn.nauk; TEGKAYEV, Kh.N., dotsent,
kand.tekhn.nauk; PROTASOV, V.Z., inzh.; VIKTOROV, I.V., laborant

"Study of the stresses in the frame and body of TE-3 diesel
locomotives." [Sbor.trud.] RIIZH no.32:59-96 '61. (MIRA 16:12)

TEGKAYEV, Kh.N., kand. tekhn. nauk, dotsent

Studying the work of steam slag wetting devices in the boiler
furnaces of industrial transportation. Trudy RIIZHT no.44:
169-200 '64. (MIRA 19:1)

"APPROVED FOR RELEASE: 07/16/2001

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TecLas G

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755130010-8"

TEGLAS, GY.

Laszlo Verebely and Pal Sstroky's Villamos vasutak (Electric Railroads); a book review. p. 30. ELEKTROTECHNIKA. (Magyar Elektrotechnikai Egyesulet) Budapest. Vol. 49, no. 1, Jan. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 6, June 1956

TEGLAS, GY. RICHTER and VOSS¹

TEGLAS, GY. RICHTER and VOSS¹ Structural Elements of Precision Mechanics;
a book review, p. 93.

Vol. 49, no. 3, March 1956

ELEKTROTECHNIKA

TECHNOLOGY

Budapest, Hungary

SO: East European Accession Vol. 6, no. 3, March 1957

TEGLAS, GY.

Protection against shock. p.116.

VILLAMOSSAG. Budapest, Hungary. Vol. 7, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, no. 9, September 1959
Uncl.

TEGHAS, Gyorgy, Dr.

The work of the International Electrotechnical Commission and the role of Hungary in the standardization of measuring instruments and kilowatt-hour meters. Villamossag 9 no.10:311-312 0 '61.

TEGLAS, Gyorgy, dr.

International standardization. Villamossag 11 no.6:188 Je '63.

LASZLO TEGLAS

Az utfenntartas gepesitese (Mechani-zation of Road Maintenance),
a book review. p. 321. KOZLEKEDES TUDOMANYI SZEMLE, Vol. 5, No.
7/8, July/Aug., 1955. Budapest.

Source: East European Accessions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

TEGLASSY, Tivadar

Standardization by individual factories within the Hungarian
instrument industry. Finommechanika 1 no.10:304-307 0 '62.

KURUCZ, Janos, tudomanyos munkatars; TEGLASSY, Tivadar, tudomanyos munkatars

Laptops technology and standardization. Szabvany kozl 16 no.10:
175 0 '64.

1. Electric Automation Institute, Budapest (for Kurucz). 2. Instrument
Industry Research Institute, Budapest (for Teglassy).

MERABISHVILI, M.S., glavnnyy red.; AVALLANI, G.A., red.; BAKRADZE, I.V., red.; DOLABERIDZE, L.D., red.; KAKRADZE, N.A., red.; KOMETIANI, G.A., red.; TVALCHRELIDZE, G.A., red.; TEGONIDZE, G.I., red.; FOKIN, A.M., red.; FILATOV, S.S., red.; EDILASEVILI, V.Ya., red.; BEREZOVSKAYA, L.I., red.izd-va; IVANOVA, A.G., tekhn.red.

[Yearbook of the Caucasus Institute of Raw Minerals for 1957]
Ezhegodnik Kavkazskogo instituta mineral'nogo syr'ia za 1957
god. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane
nedr, 1959. 54 p. (MIRA 13:12)

1. Tiflis. Kavkazskiy institut mineral'nogo syr'ya.
(Caucasus--Mines and mineral resources)

MATKOVICS, B.; FOLDEAK, S.; TEGYEI, Zs.(Miss); CSEH, I.; PORSZASZ, J.

Synthesis of substances effecting on C.N.S. Pt.6. Acta
phys chem Szeged 9 no. 3/4:143-147 '63.

1. Institute of Organic Chemistry, Jozsef Attila University,
Szeged (for Matkovics, Foldeak, Tegyei). 2. Institute of
General and Physical Chemistry, Jozsef Attila University,
Szeged (for Cseh). 3. Institute of Physiology, Medical University,
Szeged (for Porszasz).

TEGZE, M.

Czechoslovakia

CA:47:11771

"Determination of the end point of (carbonation) mud sweetening-off."
Cukoripar 5, 15-19 (1952); Sugar Ind. Abstr. 14, 35 (1952)

TEGZE, M.

Titration end point indication with polarized electrodes.
Polaropotentiometric titration. M. Tegze Research Inst.
Sugar Ind., Budapest). *Acta Chim. Acad. Sci. Hung.* 3,
391-3(1953)(in Engl.).—A preliminary communication.
The name "polaropotentiometric titration" is suggested for
those titrations in which the end point is indicated by
measuring voltage at const. current. Math. analysis shows
that end point indication on polarized electrodes can be
applied to all suitable indicator electrodes which are re-
versible. Systems successfully tested are argentometric
titrations with Ag electrodes; neutralization titrations with
 H^+ ; quinhydrone, or Sb electrodes; oxidation-reduction
titrations; and reactions involving complex formation.

B. P. Block

TEGZE, M.

664.033.1.017

64. A rapid method for determining the diffusion constant in sugar beets - Gyorsított diffúziós állandó meghatározása cukortőlben - M. Tegze and Mrs. M. Tegze (The Sugar Industry - Cukoripar - Vol. 6, 1933, No. 2, pp. 39-45; 4 figs., 2 tabs.)

Cylindrical specimens, 6 cm long and of an 0.15 cm radius, are cut out of the beets. The sugar content is determined from one part of the specimen while 35 samples are placed into an upright or inclined wide glass tube through the closed ends of which hot water (e. g. 75° C) is made to flow upwards. The velocity of flow is selected with a view to keep the specimens floating. The temperature must be maintained within 1° C. After a determined period of time the tube is rapidly drained and the samples placed into a slicing-mixing apparatus for establishing the total sugar. The results are computed from the polarization, the measured dimensions of the specimens, the time of extraction as well as by a nomograph plotted on the basis of a formula deduced from Fick's law. This new method yields results reproducible within 5% but is much more rapid (20-30 min) than former methods. A. F.

Hungarian Technical Abst.
Vol. 6 No. 1
1954

Effect of temperature on extraction of breast. M. Teger and
Mme. M. Teger (Cuborpar 1943) a 200 mg. breast tissue was placed in
and treated according to the following scheme. An internal
diffusion system. First, an initial heating of 10° C. for 10 min. to
100° C. and then a heating of 10° C. for 10 min. to 100° C. The tissue
denatured in 100° C. water for 10 min. The sugar content before
and after extraction the time of extraction was taken for 30-25%
extraction. The same water was used and the sugar in
the raw tissue being determined. The results agreed well with
values calculated by the Arrhenius equation for the heat lost
 $D = 5.4 \cdot 10^{-4} \cdot 10^{\frac{E}{RT}}$ where D is $\sim 40\%$ and $E = 40\text{ kJ} \cdot \text{mole}^{-1}$ the
calculated figure $15.5 \cdot 10^{-4}$ for extraction in water the difference
being due to the effects of the breast cell wall tissue. Among prac-

for diffusion than to employ live steam or reheaters

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TECZE, M.

"Titration End Point Indication with Polarized Electrodes; Polaropotentiometric Titration; a Preliminary Communication." In English. p. 391 (ACTA CHIMICA, Vol. 3, No. 3, 1953) Budapest, Hungary

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

H U N G 3

67. The influence of lining on cassettes - A research
Forska & tekn. K. YUKIN and M. LIPKE. The
Sugar Industry. Charkow. Vol. 6. 1953. p.
213-215. 2 figs. 1 table.

Owing to the combined effect of Ca^{++} and OH^- ions
lining increases the elasticity of fresh beets. Lined
cassettes are more elastic under conditions of extraction
than unlined cassettes subjected to identical effects. The
exception can be found only in case of intensive heating
heating (60° C. one hour). The dissolution of the elastic
material contained in the cell wall is greatly accelerated during
extraction in alkaline solutions. The danger of this process
is not valid in practical extraction since high pH values,
which gradually drop to normal, are only encountered in
the raw juice when lined cassettes are extracted. The
optimal content of the sugar in the beets is slightly reduced

TGAE, 10

03. Flow resistance in columns packed with deformable material. Resistance in columns packed with cassettes in diffusion batteries of sugar plants — Gv. Ovatako, M. Tegze (Cukortvar Kiadásadó Kézbenhelyi — VOL. 1, 1951, No. 3, pp. 125-140, 16 figs., 5 tabs.)

AT
①

Flow characteristics in towers packed with deformable material, e.g. cassettes, are hydrodynamically different from those observed in columns with solid packings. Several equations were elaborated for the mathematical representation of the correlations between the flow data and the dimensions and material constants of the columns and packings. The results obtained on a theoretical basis are general and applicable to every column packed with deformable material, provided that the appropriate constants of the system are known. Experiments conducted on a laboratory and plant scale with cassettes served to become acquainted with the processes and simultaneously to control the validity of the theory. Numerous data obtained by these experimental measurements and calculations proved to be of direct practical importance.

1. *On the 1st of January, 1863, the slaves in the United States were freed.* The slaves in the United States were freed on the 1st of January, 1863.

TEGZE, M.

78. Electroanalogue calculating model for multiple stage evaporators with vapour bleeding - M. Tegze, B. Patakay. (Inzh. i Tekhn. Informatsia - Vol. 3, 1953, No. 2, pp. 55-58, 3 figs.)

Numerical computations by the customary methods on multiple stage extraction evaporators used in the sugar industry are lengthy. An electric analogy model has been constructed in which the problems occurring with evaporators are solved by means of equations linking certain electric quantities. The form of these equations is analogous to the formulae used in the computations. In the design of the apparatus the error due to internal consumption has been taken into account and reduced to a minimum. The electroanalogue calculating model permits the direct reading of all essential characteristics required in practice. The method is complemented by additios for solving special tasks. Accuracy is below $\pm 2\%$ for the customary values.

(1)

TEGZE, M.

77. Verification of the applicability of Fick's law to the diffusion of sugar within the beet tissue. Method for determining the diffusion constant - M. Tegze, (Mrs.)
M. Tegze, (Acta Technica Academiae Scientiarum Hungaricae - Vol. 10, 1955, No. 3-4, pp. 485-503, 5 figs.)

MR

A method has been elaborated and a device designed for the determination of the diffusion constant D (characteristic of the rate of sugar diffusion within the beet) figuring in mathematical expressions describing the diffusion processes in beet sugar factories. According to this method long, thin, cylindrical slices of beet are extracted in large quantities of hot water; the diffusion constant is graphically determined from the initial concentration and the concentration after extraction. The experimental conditions are given under which errors of measurement have a minimum influence on results. Tests conducted by this method have established the fact that Fick's law is valid for diffusion processes taking place in sugar beet, disregarding some very slight factors (unstable to other effects).

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and the results of the experiments are presented in four parts: (a) the effect of the different factors on the growth of the plants; (b) the effect of the different factors on the yield of the plants; (c) the effect of the different factors on the quality of the plants; and (d) the effect of the different factors on the yield per acre.

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APPROVED FOR RELEASE: 07/16/2001

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TEGZE, M.

V 93. Influence of the velocity of flow on sugar diffusion
in cassettes (In German) — M. Tegze, M. Tegze:
Acta Technica Academiae Scientiarum Hungaricae —
Vol. 1, 1955, No. 3—4, pp. 405—414, 3 tabl.)

HD In the diffusion of sugar from cassettes the "border layer", formed on the border surface of the sugar beet body and the liquid due to hydrodynamic actions, constitutes a resistance to diffusion. For the calculation of the latter a new concept has been introduced in which this resistance to diffusion has been replaced by an equivalent increase in the thickness of the cassette. For the determination of this fictitious thickness of cassettes tests were carried out on cylindrical cassettes of different diameters according to a method described in a previous paper by the authors.¹ The thickness of the layer was found to be about $5 \cdot 10^{-4}$ cm at 1 cm per sec velocity of flow. In the range of 0.2—8 cm per sec the variation of the layer thickness was in the order of about $2 \cdot 10^{-4}$ cm.

①

HUNGARY/Chemical Technology. Chemical Products and Their
Application. Carbohydrates and Refinement.

H

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44771.

Author : Oplatka G., Tegze M.

Inst : Hungarian Academy of Sciences.

Title : Hydrodynamic Resistance of a Column of Deformable
Material. Resistance of a Column of Sugar Beet
Slices in a Diffusion Battery.

Orig Pub: Acta techn. Acad. sci. hung., 1955, 12, No 1-2,
85-119.

Abstract: A correlation has been derived between dimensions
of the column, volume and constants of materials
filling the column, and data on the resistance to
liquid flow through these materials. This corre-
lation has been verified under laboratory conditions
and in full-scale operations.

Card : 1/1

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HABERNYI, Karoly; TEGZE, Miklos; VAJDA, Odon; VUKOV, Konstantin

Continuous operation of the J-diffusion at Petohaza Sugar
Factory in the 1957-1958 campaign. Cukor 11 no. 5:109-118
My'58

1. Cukoripari Kutatointezet. 2. "Cukoripar" szarkeszto bizott-
sagi tagja (for Vukov).

TEGZE, M.

ELEMÉZSI IPAR. (Mezogazdasági és Elmíezési párti Tudományos Egyesület)
Budapest.

Instrumentation and automation problems of the J-diffusion. p. 344

Vol. 12. No. 11/12, Nov/Dec. 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No 13
March 1959, Unclass.

HABERENYI, K.; TEGZE, M.; VAJDA, Odon; VUKOV, Konstantin

Investigation of the Petohaza J-diffusion installation
during the 1958-59 campaign. Cukor 12 no.3:65-68 Mr '59.

1. Cukcripari Kutato Intezet. 2. "Cukoripar" szerkeszto
bizottsagi tagja (for Vukov).

TEGZE, M.

Experience with "J2-diffusion on equipments installed in 1959.
Periodica polytechn eng 4 no.3:313-320 '60. (EPAI 10:6)

1. Research Institute of the Hungarian Sugar Industry.
(Hungary--Sugar)

TEGZE, Miklos

Certain problems relating to the instrumentation and automation of the sugar manufacture. Cukor 14 no. 2:37-40 F '61.

1. Cuköripari Kutatointezet.

TEGZE, Miklos, dr., okleveles vegyeszmernok; MALATINSZKY, Gyorgy,
okleveles gépeszmernok

Instrumentation and automation of the Polish sugar industry.
Cukor 16 no.9:251-254 S '63.

1. Cukoripari Kutatointezet (for Tegze). 2. Hatvani Cukorgyar
(for Malatinszky).

KAFFKA, Karoly; GYORGY, Zoltan; VAMOS, Tibor, dr.; RITTER, Endre; MARKUS, Ferenc; BOROMISSZA, Gyula, dr.; BUJTAS, Laszlo, dr.; BUJTAS, Laszlo, dr.; EDELENYI, Laszlo; BAN, Tamas, dr.; TECZE, Miklos, dr.; ALPAR, Imre; KERECSENYI, Gyorgy; GANGER, Gyorgy; VARGA, Istvan.

Present state and perspectives of the automation in the food industry. Elelm ipar 18 no.2:33-36 F'64

1. Committee on Measuring and Control Technique, Scientific Association of the Agricultural and Food Industry, Budapest (for Kaffka).
2. Directorate of Instrument Industry, Ministry of Metallurgy and Machine Industry, Budapest (for Gyorgy).
3. National Committee on Technical Development, Budapest (for Vamos).
4. Central Committee of Automation, Budapest (for Ritter).
5. Secretariat of Automation, Ministry of Metallurgy and Machine Industry, Budapest (for Markus).
6. Ministry of Food, Budapest (for Bojtas).
7. Technical Department, Ministry of Food, Budapest (for Alpar).

TEGZE, Miklos, dr.

Some problems of level measurement and control in the sugar
industry. Elelm ipar 18 no.8/9:235-239 Ag-S '64.

1. Research Institute of the Hungarian Sugar Industry, Budapest.

File 625, Part 4

Effect of temperature on extraction [of beets]. M. Tegze and Mme. M. Tegze (Cukoripar, 1953, 8, 284-288).—The Silin, Golovin, and Dostrov equations for diffusion are discussed. An internal diffusion follows Fick's law. Silin's equation is preferred. The diffusion coeff. (D) was determined with cylindrical beet samples (denatured in raw juice at 75° for 30 min.), the sugar content before and after extraction, the time of extraction (chosen for 20-25% extraction), the dimensions of the cylinder, and the sugar in the raw juice being determined. The results agreed well with values calculated by the Einstein equation. For the beet used, $D = 5.5-6.6 \times 10^{-4}$ eq. cm. per min., which is ~80% of the calculated figure (8.5×10^{-4}) for sucrose in water, the difference being due to the effects of the beet cell-wall tissue. Among practical conclusions, it is considered best to use initially hotter water for diffusion than to employ live steam or reheaters.

SUG. INP. AUSTRIA (P. S. A.).

TEGZE, MRS. M.

Verification of the applicability of Fick's law to the diffusion of sugar within the tissue of the beet; a method for determining the diffusion constant, p. 485, ACTA TECHNICA, (Magyar Tudomanyos Akademia) Budapest, Vol. 10, No. 3/4, 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 12, December 1955

TEGZE, M.

HUNG

"Verification of the applicability of Fick's Law to the diffusion of sugar within the tissue of the beet." M. Tegze and Mira M. Tegze. *Acta Tech. Acad. Sci. Hung.* 10, 485-503 (1957). Fick's Law that the rate of diffusion is proportional to the area and to the concen. gradient was tested and found valid for diffusion processes taking place within the sugar beet. Long, thin cylindrical slices cut from the beet were soaked in a large quantity of warm water and the diffusion coefficient, graphically with the initial-conc. and the time.

TEGZE, M.

✓ Verification of the applicability of Fick's law to the diffusion of sugar within the beet tissue. Method for determining the diffusion constant. — M. Tegze. (Mrs.) M. Tegze. *Acta Technica Academiae Scientiarum Hungaricae* — Vol. 16, 1953, No. 3-4, pp. 483-503, 5 figs.)

A method has been elaborated and a device designed for the determination of the diffusion constant D (characteristic of the rate of sugar diffusion within the beet) figuring in mathematical expressions describing the diffusion processes in beet sugar factories. According to this method long, thin, cylindrical slices of beet are extracted in large quantities of hot water, the diffusion constant is graphically determined from the initial concentration and the concentration after extraction. The experimental conditions are given under which errors of measurement have a minimum influence on results. Tests conducted by this method have established the fact that Fick's law is valid for diffusion processes taking place in sugar beet, disregarding some very slight discrepancies attributable to other effects.

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